

**WHAT WILL I
LEARN?**

**Structure &
Properties of Matter**

**I will be able to recognize
that all living & nonliving
things are composed of
matter (particles) having
characteristic properties
that distinguish one
substance from another.**

**I will be able to
explain what atoms
are and how they can
combine to make new
substances.**

**I will be able to
explain how matter is
conserved even when
it changes form.**

**I will be able to
explain the difference
between mass and
weight.**

**I will be able to explain
with concrete objects and
mathematical formulas
how the relationship of
mass and volume
expresses density.**

**I will be able to explain
how temperature and
the state of matter
depend on the energy
level of the atoms or
molecules.**

**I will be able to
identify and interpret
indicators of physical
and chemical changes.**

**WHAT WILL I
LEARN?**

**Circulatory and
Respiratory Systems**

**I will be able to state the
hierarchy of structure
from smallest cells to
tissues, organs, organ
systems, and whole
organisms.**

**I will be able to
predict how changing
a part of the system
will affect other parts
of that system and the
entire system.**

**I will be able to
demonstrate an
understanding of the
structures and
interrelationship of the
lungs and heart orally and
in writing.**

**I will be able to trace
the flow of blood
through blood
vessels.**

**I will be able to
explain the role of
CO₂ and O₂ in
cellular respiration.**

**I will be able to
describe how health
can be compromised
by an unhealthy
lifestyle.**

**WHAT WILL I
LEARN?**

**Rocky Shore
Ecology**

**I will be able to
identify biotic and
abiotic factors
within an ecosystem.**

**I will be able to
explain how changes
to those factors will
affect the plants and
animals.**

**I will be able to analyze a
food chain (producers,
consumers, decomposers),
recognizing that energy is
flowing through the
system.**

**I will be able to
identify common
species of the NH
rocky shore.**

**I will be able to describe
ways that organisms are
adapted to the rocky shore
environment, recognizing
that adaptations occur
over many generations.**